BLUEBACK ENTERPRISES INCORPORATED

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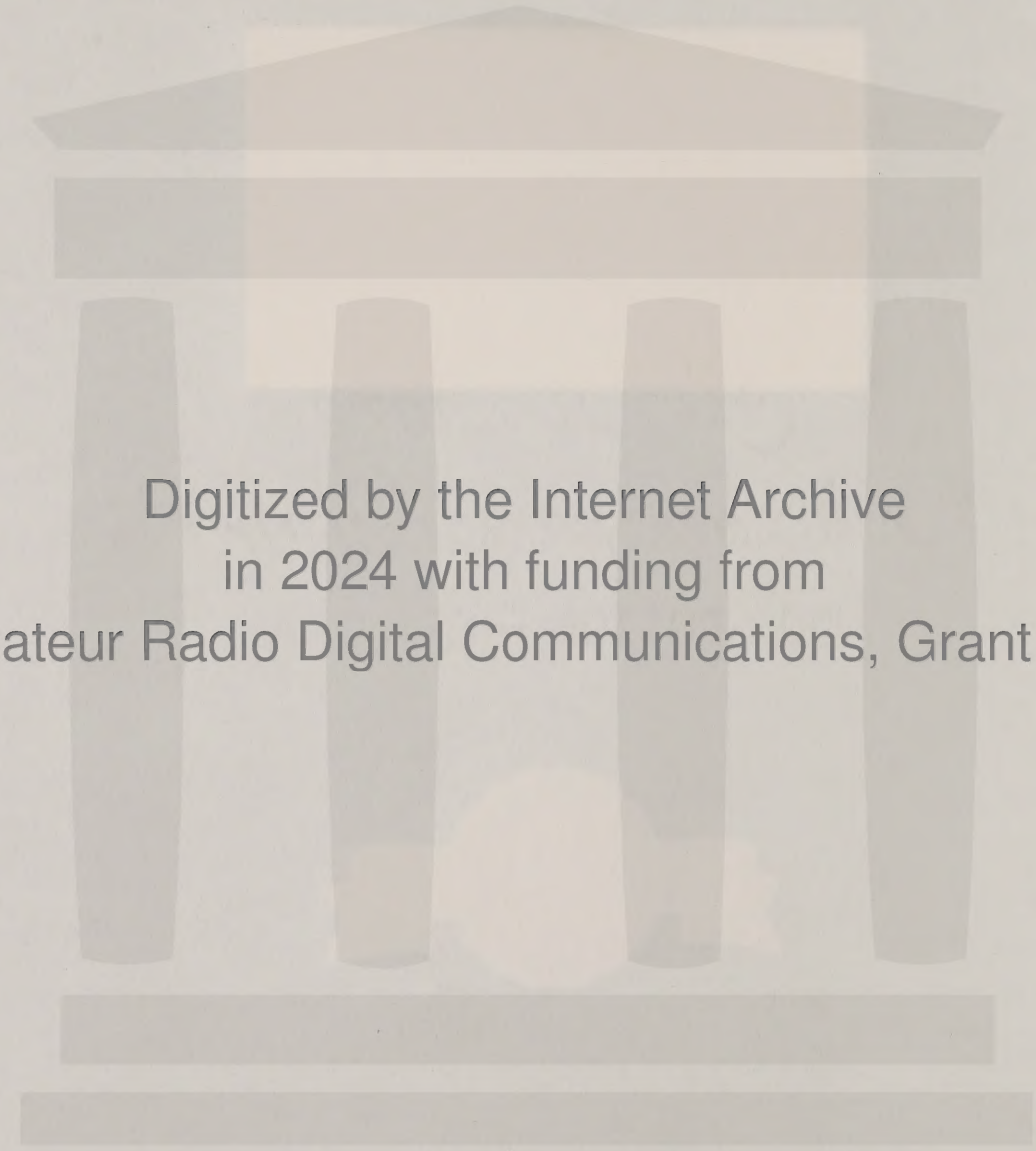
T10 DROP CABLE

TFC

TIMES FIBER COMMUNICATIONS, INC.

Wallingford, CT U.S.A.



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DETAILS OF CONSTRUCTION AND MATERIAL

CENTER CONDUCTOR
Copper-clad steel 18% minimum conductivity.

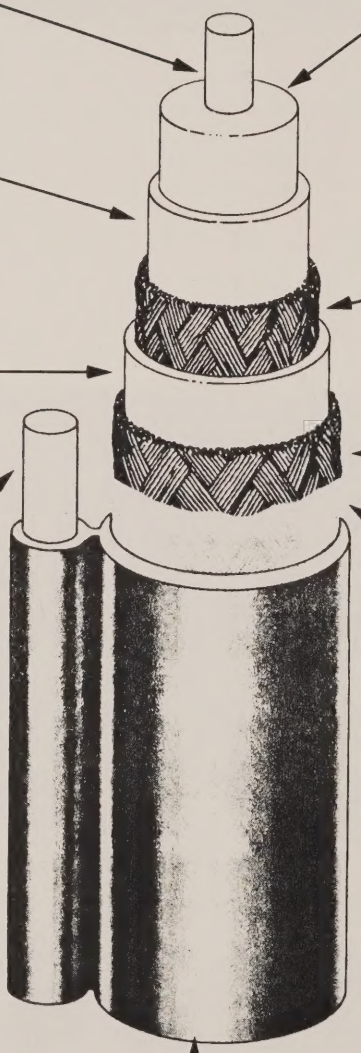
DIELECTRIC
Closed cell, high velocity precision matrix foamed polyethylene which provides optimum dielectric hardness. The foam is bonded to the center conductor with a clean stripping, proprietary moisture-blocking polymer.

FIRST OUTER CONDUCTOR
Sealed aluminum-polypropylene-aluminum (APA) laminated tape longitudinally wrapped with an overlap around the dielectric to provide 100% coverage of the dielectric and long-term reliability of shielding performance.

SECOND OUTER CONDUCTOR
Standard coverage aluminum wire braids improve shielding ability and provide additional mechanical strength.

THIRD OUTER CONDUCTOR
Unsealed aluminum-polypropylene-aluminum (APA) laminated tape, in conjunction with the second shield, provides an additional shield for improved signal isolation.

FOURTH OUTER CONDUCTOR
Economy coverage aluminum wire braids, in conjuction with the first braid, sandwiches the second tape assuring good metallic contact in the overlap of the tape.



MESSENGER
PVC jacketed, galvanized steel wire integrally attached to cable jacket with easily separable PVC web serves as support for cable. The 0.051 in. (1.30 mm) wire has a 200 lb. (91 kg) break strength.

CORROSION RESISTANT PROTECTANT
(See further explanation under Features).
Aerial
lifeTime™ is a dripless compound which remains functional over a temperature range of -40° F to 140° F (-40°C to +60°C).
Underground
Polyisobutylene flooding compound has cold flow properties for self-healing of small jacket damage.

JACKET
Protective PVC applied over the braid to environmentally seal the construction. Both black and non-black jackets are UV resistant and may be used outdoors.

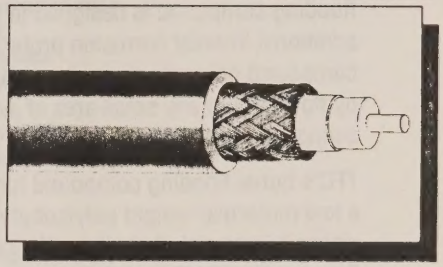
Pictured is T10 Drop Cable, Quadshield version showing a complete drop cable construction including Times' exclusive **lifeTime**™ protectant.

APPLICATION OF CONSTRUCTION TYPES

The T10 Drop Cable Series offers a number of variations suited for different applications. Below is a listing which describes the recommended applications for each construction type. T10 Drop Cable Series is intended for applications for -40°F to +140°F (-40°C to +60°C).

SINGLE

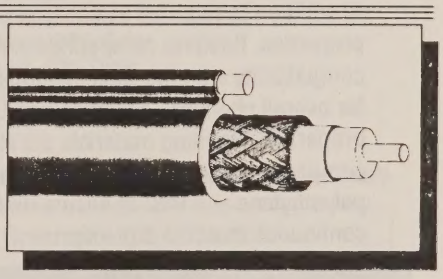
Plain, single drop cable is well-suited for a wide range of general purpose indoor and outdoor applications, aerially and short span to house.



MESSENGERED

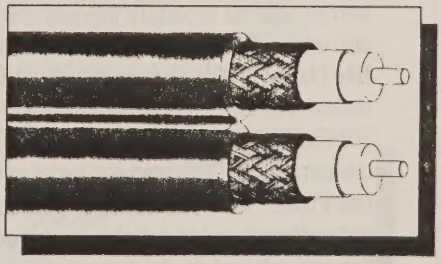
Messengered cable is recommended for longer spans when higher strength is required to improve reliability in severe weather conditions.
A galvanized steel messenger wire is integrally joined to the coaxial cable by an overall extruded PVC jacket and connecting web.

A flexible messenger wire is utilized making it ideal for wrapping around span clamps and "P" hooks, The wire can be easily cut for installation purposes and has superior break strength compared to other versions available in similar sizes. Messenger sizes vary, refer to specifications.



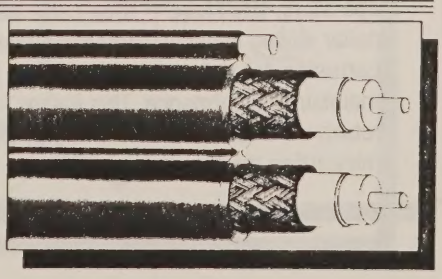
SIAMESE

Two single cables are joined by an overall extruded PVC jacket and connecting web for use in apartments and dual plant systems since it is more economical to install one siamese cable than two single cables.



SIAMESE MESSENGERED

A PVC jacketed, galvanized steel wire is integrally attached to the jacket of the siamese cable by an extruded web. The wire acts as a support for the cable in pole-to-house drops.



FEATURES AND BENEFITS

The T10 Drop Cable Series is designed with controlling system costs in mind. The construction types offered in this series can be used in a variety of applications which can facilitate smooth system operation.

FLOODING COMPOUND

Recommended for burial cable applications, flooding compound is designed to provide additional internal corrosion protection. Flooding compound primarily prevents moisture ingress by flowing into any small area of jacket damage, acting as a self-healer.

TFC's burial flooding compound for drop cable is a low molecular weight polyisobutylene, low viscosity material, that allows the compound to flow readily into the crevices of the cable's outer braid and onto the taped outer conductor.

In addition to required viscosity and flow properties, flooding compounds are chosen for compatibility with the cable materials used and for overall chemical, oxidation and UV resistance properties. Flooding materials are also compounded for high tackiness to aluminum, polyethylene and PVC to ensure uniform and continuous material protection.

lifeTime™

Available exclusively from TFC, **lifeTime™** is a corrosion resistant protectant designed to form a barrier against moisture ingress and retard corrosion. A stable gel-like composition, **lifeTime™** is applied to the aluminum braid and underlying tape. It does not drip and retains its consistency through a wide range of temperatures. Designed for aerial use, **lifeTime™** is used from the pole to the groundblock and is suitable for indoor use from the groundblock to the television set.

The standard drop cable choice for many system operators, **lifeTime™** drop cable offers actual dollar saving benefits. Protecting against corrosion not only extends cable life, it also maintains performance. This means improved return on labor and material investment while minimizing maintenance costs.

NATIONAL ELECTRICAL CODE (NEC)

"CATV" rated drop cable is Times' standard NEC compliant cable. Listed by Underwriter's Laboratories (UL), (File #E86650) this new cable meets the required 1990 National Electric Code, Article 820, Community Antenna Television and Radio Distribution Systems.

In addition to requirements governing various installation methods and materials, the code sets forth different levels of fire, flame, or smoke performance for communication cables.

For more information, refer to Technical Note NEC #1044B, 11/89

BONDING

The bonded construction of drop cable begins with the center conductor to dielectric interface and continues from the dielectric to tape.

A bonded center conductor serves as a guard against moisture ingress, defending against increasing attenuation. In addition, the bonded dielectric which prevents center conductor movement, facilitates connectorization by removing cleanly and easily. Finally, bonding of the dielectric to tape allows the overlapping tape to stay sealed during cable flexure, minimizing RF signal leakage.

1 GHz BANDWIDTH

T10 drop cable is specified to have SRL sweep performance to 1 GHz. Specifying 1 GHz bandwidth for rebuilds, upgrades or new plant allows a system to handle future increasing capacity needs demanded by more channels, higher definition television and other emerging technologies.

BRAID COVERAGE DESCRIPTIONS

T10 Drop Cable is available in a wide selection of braid coverages. These coverage distinctions are designed to offer a choice of protection for a variety of environmental conditions. The descriptions below detail braid construction and environmental applications.

STANDARD

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Aluminum Braid
- Braid Coverage Available:
  59 Series - 53% and 67%
  6 Series - 60%
- Low-medium RF noise environment application

PREMIUM

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Aluminum Braid
- Braid Coverage Available:
  59 Series - 95%
  6 Series - 90%
- Medium-moderately high RF noise environment application

TRISHIELD

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Aluminum Braid
  3. APA Laminated Tape
- Braid Coverage Available:
  59 Series - 80%
  6 Series - 60% and 80%
- High RF noise environment application

QUADSHIELD

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Inner Aluminum Braid
  3. APA Laminated Tape
  4. Outer Aluminum Braid
- Braid Coverage Available:
  59 Series - 52% Inner, 34% Outer
  6 Series - 60% Inner, 40% Outer
- Severe RF noise environment application

BRAID COVERAGE CALCULATIONS

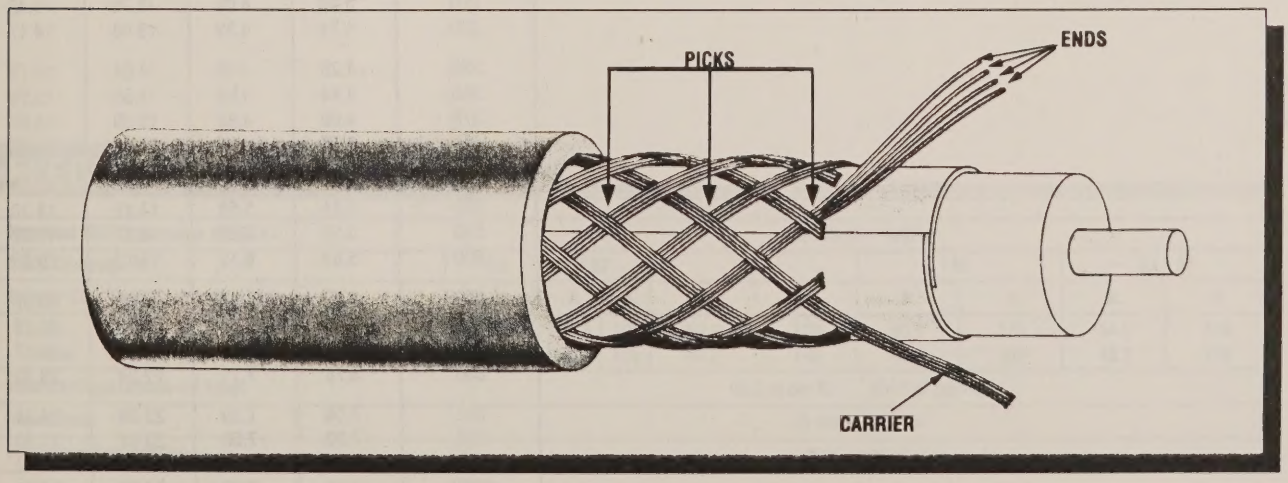
In addition to the 100% shielding coverage provided by internal shielding tapes, wire braid provides additional shielding coverage. The percentage of coverage that a wire braid contributes is a function of the diameters of the wire braid and the underlying structure, the number of carriers (groups of wire ends), the number of individual wires in each carrier and the picks per inch (the points of crossing of the carriers). The following formulae are applicable:

$$\text{Percent Coverage} = (2F - F^2) \times 100$$

Where: $F = NPd/\sin A$

$A = \tan^{-1} 2\pi (D + 2d) (P/C)$

And:
- C= Number of carriers (groups of ends)
- N= Number of ends (strands) per carrier
- P= Picks per inch (carrier crossing points)
- d= Diameter of individual wire strand
- D= Diameter of structure under the braid



PART NUMBERS

CONSTRUCTION	BRAID COVERAGE				
	STANDARD		PREMIUM	TRISHIELD	QUADSHIELD
Nominal Braid Coverage %	53	67	95	80	52 - 34
Regular					
Single	42345	42183	--	--	42245
Single Messengered	42347	42185	--	--	42247
Underground					
Single Flooded	42374	42186	--	--	--
lifeTime™					
Single	92345	--	--	--	--
Single Messengered	--	92185	--	--	--
CATV (UL) Listed					
Single	42345V	42183V	42545V	42607V	42245V
Single (Colors)	--	42184V	--	--	42270V
Siamese	42384V	42316V	--	--	42248V
CATV (UL) Listed w/lifeTime™					
Single	--	92183V	--	--	--
Siamese	--	92316V	--	--	--

REEL SIZE

CONSTRUCTION TYPE	REEL SIZE	
Series 59	inches	centimeters
Single	12x11x4	30x28x10
Single Quadshield	12x11x4	30x28x10
Single Messengered	16x11x4	41x28x10
Siamese	16x11x4	41x28x10
Siamese Quadshield	16x14x5	41x36x13

ATTENUATION

Frequency	Nominal	Maximum	Nominal	Maximum
(MHz)	(dB per 100 feet)		(dB per 100 meters)	
5	0.79	0.83	2.59	2.72
30	1.46	1.53	4.79	5.02
50	1.74	1.83	5.71	6.00
108	2.46	2.58	8.07	8.46
216	3.48	3.66	11.41	12.00
240	3.67	3.86	12.04	12.66
270	3.89	4.09	12.76	13.42
300	4.11	4.32	13.48	14.17
325	4.28	4.49	14.04	14.73
350	4.44	4.66	14.56	15.28
375	4.60	4.83	15.09	15.84
400	4.75	4.99	15.58	16.37
450	5.04	5.29	16.53	17.35
500	5.31	5.58	17.42	18.30
550	5.57	5.86	18.27	19.22
600	5.83	6.12	19.12	20.07
650	6.09	6.39	19.98	20.96
700	6.32	6.64	20.73	21.78
750	6.55	6.88	21.48	22.57
800	6.78	7.11	22.24	23.32
862	7.04	7.39	23.09	24.24
900	7.20	7.56	23.62	24.80
950	7.41	7.78	24.30	25.52
1000	7.61	7.99	24.96	26.21

+/- 1% per 10°F Change (+/- 1.8% per 10°C Change)

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	BRAID COVERAGE: STANDARD		PREMIUM		TRISHIELD		QUADSHIELD	
Braid Coverage %	53 and 67		95		80		53 - 34	
Conductor	0.032 in.	0.81 mm	0.032 in.	0.81 mm	0.032 in.	0.81 mm	0.032 in.	0.81 mm
Dielectric	0.146 in.	3.71 mm	0.146 in.	3.71 mm	0.146 in.	3.71 mm	0.146 in.	3.71 mm
Sealed APA Tape (1st Outer Conductor)	0.153 in.	3.89 mm	0.153 in.	3.89 mm	0.153 in.	3.89 mm	0.153 in.	3.89 mm
Aluminum Braid (2nd Conductor)	0.178 in.	4.52 mm	0.182 in.	4.62 mm	0.178 in.	4.32 mm	0.178 in.	4.52 mm
UnSealed APA Tape (3rd Outer Conductor)	---	---	---	---	0.182 in.	4.62 mm	0.182 in.	4.62 mm
Aluminum Braid (4th Outer Conductor)	---	---	---	---	---	---	0.207 in.	5.26 mm
Jacket	0.238 in.	6.05 mm	0.238 in.	6.05 mm	0.246 in.	6.25 mm	0.262 in.	6.65 mm
Reel Size (inches) (Flange x Traverse x Hub) **(Refer to reel size chart on page 6)**								
Reel Size (centimeters) (Flange x Traverse x Hub)								
Cable Width								
Messenger Diameter (Single)	0.051 in.	1.30 mm	---	---	---	---	0.051 in.	1.30 mm
Single Messengered	0.393 in.	9.98 mm	---	---	---	---	0.417 in.	10.6 mm
Siamese Width	0.521 in.	13.2 mm	---	---	---	---	0.569 in.	14.5 mm
Messenger Diameter (Siamese)	---	---	---	---	---	---	---	---
Siamese Messengered	---	---	---	---	---	---	---	---
Cable Weight (per 1000 feet or meters)								
Regular								
Single	23 lb.	10 kg	24 lb.	11 kg.	24 lb.	11 kg	27 lb	12 kg
Single Messengered	35 lb.	16 kg	--	--	--	--	39 lb.	18 kg
Siamese	46 lb.	21 kg	--	--	--	--	54 lb.	24 kg
Underground								
Single Flooded	22 lb.	10 kg	--	--	--	--	--	--
lifeTime™								
Single	22 lb.	10 kg	--	--	--	--	--	--
Single Messengered	--	--	--	--	--	--	--	--
Siamese	45 lb.	20 kg	48 lb.	22 kg	--	--	51 lb.	23 kg

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance at 68°F	**Ohms per 1000**									
Braid Coverage %	53		67		95		80		53 - 34	
Copper-Clab Steel Center Conductor	**ft.**	**m**	**ft.**	**m**	**ft.**	**m**	**ft.**	**m**	**ft.**	**m**
Loop	59.9	196	57.9	190	54.9	179	52.7	173	54.5	179
Center	48.2	158	48.2	158	48.2	158	48.2	158	48.2	158
Nominal Capacitance-all types	16.5 pf per ft. (54.1 pf per m)									
Impedance	75 ohms nominal									
Velocity of Progagation	83% nominal									

PART NUMBERS

CONSTRUCTION	BRAID COVERAGE				
	STANDARD	PREMIUM	TRISHIELD		QUADSHIELD
Nominal Braid Coverage %	60	90	60	80	60 - 40
Regular					
Single	42360	--	--	--	42260
Single Messengered	42364	42564	42623	42628	42264
Underground					
Single Flooded	42386	42586	--	42629	42286
Siamese Flooded	42353	--	--	--	42253
lifeTime™					
Single Messengered	92364	92564	92623	92628	92264
CATV (UL) Listed					
Single	42360V	42560V	--	42627V	42260V
Single (Colors)	42391V	42591V	42620V	42625V	42291V
Siamese	42396V	--	--	--	--
CATV (UL) Listed w/lifeTime™					
Single	92360V	92560V	92622V	92627V	92260V

REEL SIZE

CONSTRUCTION TYPE	REEL SIZE	
Series 6	inches	centimeters
Single	12x11x4	30x28x10
Single Quadshield & Trishield	16x11x4	41x28x10
Single Messengered	16x11x4	41x28x10
Siamese	18x14x5	46x36x13

ATTENUATION

Frequency	Nominal	Maximum	Nominal	Maximum
(MHz)	(dB per 100 feet)		(dB per 100 meters)	
5	0.60	0.63	1.97	2.07
30	1.11	1.16	3.64	3.80
50	1.32	1.39	4.33	4.56
108	1.95	2.05	6.40	6.72
216	2.78	2.92	9.12	9.58
240	2.93	3.08	9.61	10.10
270	3.12	3.27	10.23	10.73
300	3.29	3.46	10.79	11.35
325	3.43	3.60	11.25	11.81
350	3.56	3.74	11.68	12.27
375	3.69	3.87	12.10	12.69
400	3.81	4.00	12.50	13.12
450	4.05	4.25	13.28	13.94
500	4.27	4.49	14.01	14.73
550	4.49	4.72	14.73	15.48
600	4.69	4.93	15.38	16.17
650	4.89	5.13	16.04	16.83
700	5.08	5.34	16.66	17.52
750	5.27	5.53	17.29	18.14
800	5.44	5.72	17.84	18.76
862	5.66	5.94	18.56	19.48
900	5.79	6.08	18.99	19.94
950	5.95	6.25	19.52	20.50
1000	6.11	6.42	20.04	21.06

+/- 1% per 10°F Change (+/- 1.8% per 10°C Change)

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	BRAID COVERAGE: STANDARD		PREMIUM		TRISHIIELD		QUADSHIELD	
Braid Coverage %	60		90		60 and 80		60 - 40	
Conductor	0.040 in.	1.02 mm	0.040 in.	1.02 mm	0.040 in.	1.02 mm	0.040 in.	1.02 mm
Dielectric	0.180 in.	4.57 mm	0.180 in.	4.57 mm	0.180 in.	4.57 mm	0.180 in.	4.57 mm
Sealed APA Tape (1st Outer Conductor)	0.187 in.	4.75 mm	0.187 in.	4.75 mm	0.187 in.	4.75 mm	0.187 in.	4.75 mm
Aluminum Braid (2nd Conductor)	0.212 in.	5.38 mm	0.216 in.	5.49 mm	0.212 in.	5.38 mm	0.212 in.	5.38 mm
UnSealed APA Tape (3rd Outer Conductor)	---	---	---	---	0.216 in.	5.49 mm	0.216 in.	5.49 mm
Aluminum Braid (4th Outer Conductor)	---	---	---	---	---	---	0.241 in.	6.12 mm
Jacket	0.272 in.	6.91 mm	0.272 in.	6.91 mm	0.280 in.	7.11 mm	0.297 in.	7.54 mm
Reel Size (inches) (Flange x Traverse x Hub) Reel Size (centimeters) (Flange x Traverse x Hub)	**Refer to reel size chart on page 8**							
Cable Width								
Messenger Diameter (Single)	0.051 in.	1.30 mm	0.051 in.	1.30 mm	0.051 in.	1.30 mm	0.051 in.	1.30 mm
Single Messengered	0.427 in.	10.8 mm	0.427 in.	10.8 mm	0.427 in.	10.8 mm	0.452 in.	11.5 mm
Siamese Width	0.589 in.	15.0 mm	---	---	---	---	0.639 in.	16.2 mm

Cable Weight (per 1000 feet or meters)

Regular										
Single	29 lb.	13 kg	29 lb.	13 kg.	--	--	30 lb.	14 kg	34 lb.	15 kg
Single Messengered	41 lb.	19 kg	41 lb.	19 kg	40 lb.	18 kg	42 lb.	19 kg	46 lb.	21 kg
Siamese	58 lb.	26 kg	--	--	--	--	--	--	--	--
Siamese Messengered	--	--	--	--	--	--	--	--	--	--
Underground										
Single Flooded	28 lb.	13 kg	29 lb	13 kg	--	--	31 lb.	14 kg	32 lb.	14 kg
Siamese Flooded	57 lb.	26 kg	--	--	--	--	--	--	65 lb.	28 kg
lifeTime™										
Single	--	--	29 lb.	13 kg	--	--	--	--	32 lb.	14 kg
Single Messengered	40 lb.	18 kg	41 lb.	19 kg	41 lb.	19 kg	43 lb.	19 kg	44 lb.	20 kg

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance at 68°F	Ohms per 1000									
Braid Coverage %	60		90		60		80		60 - 40	
Copper-Clad Steel Center Conductor	ft.	m	ft.	m	ft.	m	ft.	m	ft.	m
Loop	39.7	130	36.7	120	36.9	121	34.3	113	35.7	117
Center	30.4	100	30.4	100	30.4	100	30.4	100	30.4	100
Nominal Capacitance-all types	16.5 pf per ft. (54.1 pf per m)									
Impedance	75 ohms nominal									
Velocity of Progagation	83% nominal									

TIMES FIBER COMMUNICATIONS, INC.
1-800-677-CATV

TFC

611 SERIES DROP CABLE T10

PHYSICAL SPECIFICATIONS

NOMINAL DIAMETERS	STANDARD		QUADSHIELD	
Braid Coverage %	60		60-36	
	inches	(mm)	inches	(mm)
Conductor	0.051	(1.29)	0.051	(1.29)
Dielectric	0.225	(5.72)	0.225	(5.72)
Sealed APA Tape (1st Outer Conductor)	0.232	(5.89)	0.232	(5.89)
Aluminum Braid (2nd Conductor)	0.257	(6.53)	0.257	(6.53)
Unsealed APA Tape (3rd Outer Conductor)	—	—	0.261	(6.63)
Aluminum Braid (4th Outer Conductor)	—	—	0.286	(7.26)
Jacket	0.325	(8.26)	0.350	(8.89)
Messenger Break Strength **Size**	**Minimum**		**Maximum**	
0.072 in (1.83mm)	365 lb (1624 N)		490 lb (2180 N)	
Cable Width				
Messenger Diameter (Single)	0.072	(1.83)	0.072	(1.83)
Single Messengered Width	0.502	(12.8)	0.527	(13.4)
Siamese Width	—	—	—	—
Messenger Diameter (Siamese) Width	—	—	—	—
Siamese Messengered Width	—	—	—	—
Cable Weight [pounds per 1000 feet (kg/km)]				
Regular				
Single	40 lb	(60)	45 lb	(67)
Single Messengered	60 lb	(89)	66 lb	(98)
Siamese	—	—	—	—
Siamese Messengered	—	—	—	—
Underground				
Single Flooded	39 lb	(58)	44 lb	(65)
Siamese Flooded	—	—	—	—
lifeTime™				
Single	39 lb	(58)	44 lb	(65)
Single Messengered	59 lb	(88)	65 lb	(97)
Siamese	—	—	—	—
Siamese Messengered	—	—	—	—

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance at 68°F (20°C)	**Ohms per 1000 feet (ohms/1000 meters)**			
Braid Coverage %	60		60-36	
Copper-Clad Steel Center Conductor	**ft**	**m**	**ft**	**m**
Loop	26.8	87.9	23.5	77.1
Center	19.1	62.6	19.1	62.6
Nominal Capacitance-all types	15.9 pF/ft (52.2 pF/m)			
Impedance	75 ohms nominal			
Velocity of Propagation	85% nominal			

TIMES FIBER COMMUNICATIONS, INC
1-800-677-CATV

T10 611 SERIES DROP CABLE

TFC

PART NUMBERS

CONSTRUCTION	BRAID COVERAGE	
	STANDARD	QUADSHIELD
Nominal Braid Coverage %	60	60 - 36
Regular		
Single	2358	2258
Single (Colors)	2373	2273
Single Messengered	2371	2271
Siamese	—	—
Siamese (Colors)	—	—
Siamese Messengered	—	—
Underground		
Single Flooded	2372	2272
Siamese Flooded	—	—
lifeTime™		
Single	32358	32258
Single Messengered	32371	32271
Siamese	—	—
Siamese Messengered	—	—

CATV rated (UL) listed, CSA - FT1 and CSA - FT4 certified products are also available.

REEL SIZE

CONSTRUCTION TYPE	REEL SIZE	
Series 611	**inches**	**centimeters**
Single	16x11x6	41x28x15
Single Quadshield	16x14x7	41x36x18
Single Messengered	16x14x7	41x36x18
Single Quadshield Messengered	18x14x7	46x36x18

ATTENUATION @ 68°F (20°C)

Frequency	Maximum	Maximum
MHz	dB per 100 feet	dB per 100 meters
5	0.56	1.84
30	1.00	3.28
50	1.20	3.94
108	1.65	5.41
216	2.31	7.58
240	2.44	8.00
270	2.59	8.50
300	2.74	8.99
325	2.86	9.38
350	2.98	9.77
375	3.09	10.1
400	3.20	10.5
450	3.41	11.2
500	3.61	11.8
550	3.80	12.5
600	3.99	13.1
650	4.16	13.6
700	4.33	14.2
750	4.50	14.8
800	4.66	15.3
862	4.85	15.9
900	4.96	16.3
950	5.11	16.8
1000	5.25	17.2

Attenuation varies 1% / 10°F (1.8% / 10°C)

TIMES FIBER COMMUNICATIONS, INC.
1-800-677-CATV

TFC

11 SERIES DROP CABLE T10

PHYSICAL SPECIFICATIONS

NOMINAL DIAMETERS	STANDARD		QUADSHIELD	
Braid Coverage %	53		53 - 32	
	inches	(mm)	inches	(mm)
Conductor	0.064	(1.63)	0.064	(1.63)
Dielectric	0.280	(7.11)	0.280	(7.11)
Sealed APA Tape (1st Outer Conductor)	0.287	(7.29)	0.287	(7.29)
Aluminum Braid (2nd Conductor)	0.312	(7.92)	0.312	(7.92)
Unsealed APA Tape (3rd Outer Conductor)	—	—	0.316	(8.03)
Aluminum Braid (4th Outer Conductor)	—	—	0.341	(8.66)
Jacket	0.400	(10.2)	0.429	(10.9)
Cable Width				
Messenger Diameter (Single, Pole-to-House)	0.083	(2.11)	0.083	(2.11)
Messenger Diameter (Single, Pole-to-Pole)	0.109	(2.77)	0.109	(2.77)
Single Messengered (Pole-to-House)	0.608	(15.4)	0.637	(16.2)
Single Messengered (Pole-to-Pole)*	0.624	(15.8)	0.653	(16.6)
Siamese Width	—	—	—	—
Messenger Diameter (Siamese)	—	—	—	—
Siamese Messengered Width	—	—	—	—

Messenger Break Strength	Size	Minimum	Maximum
	0.083 in (2.11 mm)	485 lb (2157 N)	650 lb (2891 N)
	0.109 in (2.77 mm)	1800 lb (8007 N)	2190 lb (9742 N)

Cable Weight [pounds per 1000 feet (kg/km)]				
Regular				
Single	64	(95)	71	(107)
Single Messengered (Pole-to-House)	92	(137)	100	(149)
Single Messengered (Pole-to-Pole)*	90	(134)	96	(143)
Siamese	—	—	—	—
Siamese Messengered	—	—	—	—
Underground				
Single Flooded	62	(92)	69	(103)
Siamese Flooded	—	—	—	—
lifeTime™				
Single	62	(92)	70	(104)
Single Messengered (Pole-to-House)	91	(135)	95	(141)
Single Messengered (Pole-to-Pole)*	90	(134)	96	(143)
Siamese	—	—	—	—
Siamese Messengered	—	—	—	—

* Polyethylene jacket

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance at 68°F (20°C)	Ohms per 1000 feet (ohms/1000 meters)			
Braid Coverage %	53		53-32	
Copper-Clad Steel Center Conductor	ft	m	ft	m
Loop	19.5	64.0	16.1	52.8
Center	12.1	39.7	12.1	39.7
Nominal Capacitance-all types	15.9 pF/ft (52.2 pF/m)			
Impedance	75 ohms nominal			
Velocity of Propagation	85% nominal			

TIMES FIBER COMMUNICATIONS, INC.
1-800-677-CATV

T10 11 SERIES DROP CABLE

TFC

PART NUMBERS

CONSTRUCTION	BRAID COVERAGE	
	STANDARD	QUADSHIELD
Nominal Braid Coverage %	53	53 - 32
Regular		
Single	2362	2262
Single (Colors)	—	—
Single Messengered (Pole-to-House)	2369	2269
Single Messengered (Pole-to-Pole)*	2366	2266
Siamese	—	—
Siamese (Colors)	—	—
Siamese Messengered	—	—
Underground		
Single Flooded	2382	2282
Siamese Flooded	—	—
lifeTime™		
Single	32362	32262
Single Messengered (Pole-to-House)	32369	32269
Single Messengered (Pole-to-Pole)*	32366	32266
Siamese	—	—

* Polyethylene jacket

CATV rated (UL) listed, CSA - FT1 and CSA - FT4 certified products are also available.

REEL SIZE

CONSTRUCTION TYPE	REEL SIZE	
Series 11	**inches**	**centimeters**
Single	16x14x7	41x36x18
Single Quadshield	18x14x7	46x36x18
Single Messengered	24x14x10	61x36x25
Single Messengered Quadshield	24x14x10	61x36x25

ATTENUATION @ 68°F (20°C)

Frequency	Maximum	Maximum
MHz	dB per 100 feet	dB per 100 meters
5	0.36	1.18
30	0.75	2.46
50	0.93	3.05
108	1.30	4.26
216	1.83	6.00
240	1.94	6.36
270	2.06	6.76
300	2.17	7.12
325	2.27	7.45
350	2.36	7.74
375	2.44	8.00
400	2.53	8.30
450	2.69	8.82
500	2.85	9.35
550	3.01	9.87
600	3.16	10.4
650	3.30	10.8
700	3.44	11.3
750	3.58	11.7
800	3.71	12.2
862	3.88	12.7
900	3.97	13.0
950	4.10	13.4
1000	4.23	13.9

Attenuation varies 1% / 10°F (1.8% / 10°C)

ATTENUATION SUMMARY (dB per 100 feet)

Frequency	59 Series		6 Series	
(MHz)	Nominal	Maximum	Nominal	Maximum
5	0.79	0.83	0.60	0.63
30	1.46	1.53	1.11	1.16
50	1.74	1.83	1.32	1.39
108	2.46	2.58	1.95	2.05
216	3.48	3.66	2.78	2.92
240	3.67	3.86	2.93	3.08
270	3.89	4.09	3.12	3.27
300	4.11	4.32	3.29	3.46
325	4.28	4.49	3.43	3.60
350	4.44	4.66	3.56	3.74
375	4.60	4.83	3.69	3.87
400	4.75	4.99	3.81	4.00
450	5.04	5.29	4.05	4.25
500	5.31	5.58	4.27	4.49
550	5.57	5.86	4.49	4.72
600	5.83	6.12	4.69	4.93
650	6.09	6.39	4.89	5.13
700	6.32	6.64	5.08	5.34
750	6.55	6.88	5.27	5.53
800	6.78	7.11	5.44	5.72
862	7.04	7.39	5.66	5.94
900	7.20	7.56	5.79	6.08
950	7.41	7.78	5.95	6.25
1000	7.61	7.99	6.11	6.42

At 68° F with +/- 1% per 10° F Variance

ATTENUATION SUMMARY (dB per 100 meters)

Frequency	59 Series		6 Series	
(MHz)	Nominal	Maximum	Nominal	Maximum
5	2.59	2.72	1.97	2.07
30	4.79	5.02	3.64	3.80
50	5.71	6.00	4.33	4.56
108	8.07	8.46	6.40	6.72
216	11.41	12.00	9.12	9.58
240	12.04	12.66	9.61	10.10
270	12.76	13.42	10.23	10.73
300	13.48	14.17	10.79	11.35
325	14.04	14.73	11.25	11.81
350	14.56	15.28	11.68	12.27
375	15.09	15.84	12.10	12.69
400	15.58	16.37	12.50	13.12
450	16.53	17.35	13.28	13.94
500	17.42	18.30	14.01	14.73
550	18.27	19.22	14.73	15.48
600	19.12	20.07	15.38	16.17
650	19.98	20.96	16.04	16.83
700	20.73	21.78	16.66	17.52
750	21.48	22.57	17.29	18.14
800	22.24	23.32	17.84	18.76
862	23.09	24.24	18.56	19.48
900	23.62	24.80	18.99	19.94
950	24.30	25.52	19.52	20.50
1000	24.96	26.21	20.04	21.06

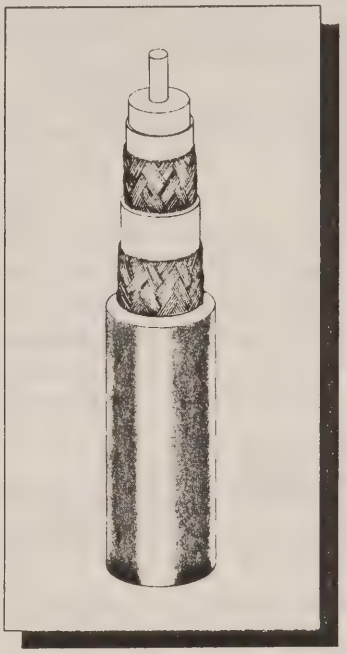
At 20° C with +/- 1.8% per 10° C Variance

T10 DROP CABLE SERIES HEADEND

DETAILS OF CONSTRUCTION AND MATERIALS

- Center Conductor - Silver-plated copper-clad steel for long term low contact resistance, low attenuation and axial strength, with easy cable preparation and reliable connector attachment for "F" type fittings.
- Dielectric - Foam Polyethylene, low loss, high velocity providing optimum dielectric properties. The foam is bonded to the center conductor with an easily stripped, proprietary moisture-blocking polymer.
- Outer Conductor
  1. Sealed APA Laminated Tape
  2. 95% Aluminum Braid
  3. APA Laminated Tape
  4. 95% Aluminum Braid
- Jacket - Flame retardant PVC, Ⓤ Listed CATV per NEC, 1990.

Application: Headend Cable is recommended for installation in headends where cable may be subjected to tight bends and mechanical abuse.



PART NUMBERS

DESCRIPTION	
Headend (Quadshield)	42240V

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	inches	millimeters
Conductor	0.032	0.81
Dielectric	0.146	3.71
First Outer Conductor	0.153	3.89.
Second Outer Conductor	0.178	4.52
Third Outer Conductor	0.182	4.62
Fouth Outer Conductor	0.207	5.26
Jacket	0.262	6.66
Cable Weight (per 1000 ft. or meters)	31 lb.	14 kg.

ELECTRICAL SPECIFICATIONS

	Ohms per 1000	
Nominal DC Resistance at 68° F	**feet**	**meters**
Loop	28.8	94.5
Center	25.3	83.0
Nominal Capacitance	16.5 pf per ft.	54.1 pf per m
Impedance	75 ohms nominal	
Velocity of Progagation	83% nominal	

ATTENUATION

Frequency	Nominal	Maximum	Nominal	Maximum
(MHz)	(dB per 100 feet)		(dB per 100 meters)	
5	0.79	0.83	2.59	2.72
30	1.46	1.53	4.79	5.02
50	1.74	1.83	5.71	6.00
108	2.46	2.58	8.07	8.46
216	3.48	3.66	11.41	12.00
240	3.67	3.86	12.04	12.66
270	3.89	4.09	12.76	13.42
300	4.11	4.32	13.48	14.17
325	4.28	4.49	14.04	14.73
350	4.44	4.66	14.56	15.28
375	4.60	4.83	15.09	15.84
400	4.75	4.99	15.58	16.37
450	5.04	5.29	16.53	17.35
500	5.31	5.58	17.42	18.30
550	5.57	5.86	18.27	19.22
600	5.83	6.12	19.12	20.07
650	6.09	6.39	19.98	20.96
700	6.32	6.64	20.73	21.78
750	6.55	6.88	21.48	22.57
800	6.78	7.11	22.24	23.32
862	7.04	7.39	23.09	24.24
900	7.20	7.56	23.62	24.80
950	7.41	7.78	24.30	25.52
1000	7.61	7.99	24.96	26.21

+/- 1% per 10°F Change (+/- 1.8% per 10°C Change)

ORDERING:

When placing an order for T10 Drop Cable, refer to the part numbers provided in the individual cable size section, or the numerical index on page 14.

There are two description codes included in the Drop Cable part number; the prefix "9" to indicate **lifeTime**™ protectant; the suffix "V" to indicate our Ⓤ listed, CATV Rated cable.

EXAMPLE:

	Description	Part Number
1.	59 Series Drop Cable, Standard Coverage	42345
2.	59 Series Drop Cable, Standard Coverage with **lifeTime**™	92345
3.	59 Series Drop Cable, Standard Coverage, CATV Rated	42345V
4.	59 Series Drop Cable, Standard Coverage, with **lifeTime**™ and CATV Rated	92345V

COLOR CODING: To aid the visual identification of each cable, colored stripes can be added to a cable jacket.

PACKAGING:

Times Fiber packages its drop cable on 1000 ft. (304.8 m) reels. 10% of your order will have lengths no shorter than 400 feet (121.9 m).

For convenient handling, we use 3 different methods of packaging;

1) The standard reel*

2) The Timesaver, which is a weatherproof cardboard construction box with a 1000 ft. (304.8 m) replacement coil inside.

3) The Timesaver II**, a reusable high density polypropylene dispenser case with integral latches to house a stretch wrapped coil.

* all drop cable can be ordered with this packaging.
** this dispenser case can be used with any single 59 or 6 series drop cable.

Dear Customer:

Products manufactured by Times Fiber Communications, Inc. are "articles" as defined in the subject Code of Federal Regulations. These articles do not release or otherwise result in exposure to a hazardous chemical when put to their normal intended use. As stated in Paragraph (b) (6), the Hazard Communication Standard does not apply to such articles. Hence, a Material Safety Data Sheet has not been prepared.

Please contact us for assistance should you have any questions regarding the normal use of our products.

Thank you for your continued interest in TFC products.

NUMERICAL INDEX

REGULAR

SERIES	CONSTRUCTION BRAID %	PART NUMBER
59	Single, 67%	42183
59	Single Messengered, 67%	42185
59	Single Flooded, 67%	42186
59	Single, 52% - 34%	42245
59	Single Messengered, 52% - 34%	42247
6	Single, 60% - 40%	42260
6	Single Messengered, 60% - 40%	42264
6	Single Flooded, 60% - 40%	42286
6	Single, 60% Flooded PEJKT	42321
59	Single, 53%	42345
59	Single Messengered, 53%	42347
6	Single, 60%	42360
6	Single Messengered, 60%	42364
59	Single Flooded, 53%	42374
6	Single Flooded, 60%	42386
6	Single Messengered, 90%	42564
6	Single Flooded, 90%	42586
6	Single Messengered, Trishield 60%	42623
6	Single Messengered, Trishield 80%	42628
6	Single Flooded, Trishield 80%	42629

CATV (UL) LISTED

SERIES	CONSTRUCTION BRAID %	PART NUMBER
59	Single, 67%	42183V
59	Single, 67% (Colors)	42184V
59	Single, 52% - 34%	42245V
59	Siamese, 52% - 34%	42248V
6	Single, 60% - 40%	42260V
59	Single, 52% - 34% (Colors)	42270V
6	Single, 60% - 40% (Colors)	42291V
59	Siamese, 67%	42316V
59	Single, 53%	42345V
59	Siamese, 53%	42348V

CATV (UL) LISTED

SERIES	CONSTRUCTION BRAID %	PART NUMBER
6	Single, 60%	42360V
6	Single, 60% (Colors)	42391V
6	Siamese, 60%	42396V
59	Single, 95%	42545V
6	Single, 90%	42560V
6	Single, 90% (Colors)	42591V
59	Single, Trishield 80%	42607V
6	Single, Trishield 80% (Colors)	42625V
6	Single, Trishield 80%	42627V

HEADEND

SERIES	CONSTRUCTION BRAID %	PART NUMBER
59	Double Braid	42240V

lifeTime™

SERIES	CONSTRUCTION BRAID %	PART NUMBER
59	Single Messengered, 67%	92185
6	Single Messengered, 60% - 40%	92264
59	Single, 53%	92345
6	Single Messengered, 60%	92364
6	Single Messengered, 90%	92564
6	Single Messengered, Trishield 60%	92623
6	Single Messengered, Trishield 80%	92628

CATV (UL) LISTED with lifeTime™

SERIES	CONSTRUCTION BRAID %	PART NUMBER
59	Single, 67%	92183V
6	Single, 60% - 40%	92260V
59	Siamese, 67%	92316V
6	Single, 60%	92360V
6	Single, 90%	92560V

TFC

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